

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-14 (Canceled)

15. (New) An emulsifiable concentrate comprising an active ingredient being a dinitroaniline compound, an emulsifier or an emulsifier mixture, and a solvent, said concentrate comprising an amount of a diester co-solvent having the following formula:



wherein:

R^1 and R^2 , identical or different, are C_1-C_{10} , optionally C_1-C_6 , linear or branched, alkyl, aryl, alkaryl or arylalkyl groups, and

n is an average number of from 2 to 4.

16. (New) The emulsifiable concentrate according to claim 15, wherein the active ingredient is selected from the group consisting of pendimethalin, trifluralin and mixtures thereof.

17. (New) The emulsifiable concentrate according to claim 15, wherein the diester co-solvent is diisobutyl adipate or a mixture of diisobutyl adipate, diisobutyl glutarate, and diisobutyl succinate.

18. (New) The emulsifiable concentrate according to claim 17, wherein the diester co-solvent comprises:

from 59 to 67 parts by weight of diisobutyl glutarate,

from 20 to 28 parts by weight of diisobutyl succinate, and

from 9 to 7 parts by weight of diisobutyl adipate.

19. (New) The emulsifiable concentrate according to claim 15, wherein the solvent is an aromatic hydrocarbon.

20. (New) The emulsifiable concentrate according to claim 15, comprising:

at least 330 g/l of the active ingredient, optionally from 400 g/l to 500 g/l,

from 100 to 130 g/l of the emulsifier or mixture of emulsifiers,

from 10 to 30 g/l of the diester co-solvent, and

the solvent, to volume.

21. (New) The emulsifiable concentrate according to claim 15, wherein the emulsifier or mixture of emulsifiers is selected from the group consisting of anionic surfactants, nonionic surfactants, and mixtures thereof.

22. (New) The emulsifiable concentrate according to claim 21, wherein the anionic surfactants are alkylbenzenesulfonates, dodecylbenzenesulfonates, calcium dodecylbenzenesulfonate, ethoxylated and/or propoxylated di- or tri- styrylphenol phosphates, ethoxylated and/or propoxylated di- or tri-styrylphenol sulfates, phenyl sulfonates, alkynaphthalenesulphonates, ethoxylated and/or propoxylated alcohol phosphate esters, ethoxylated and/or propoxylated alkylaryl phosphate esters, taurates, suphosuccinates, or polycarboxylates,

23. (New) The emulsifiable concentrate according to claim 21, wherein the nonionic surfactants ethoxylated and/or propoxylated di- or tri-styrylphenols, ethoxylated and/or propoxylated fatty alcohols, ethoxylated and/or propoxylated fatty amines, ethoxylated and/or propoxylated alkylphenols such as ethoxylated nonylphenols, block copolymers

having polypropylene glycol blocks and polyethylene glycol blocks, sorbitan esters, ethoxylated oleic acids, or ethoxylates castor oils.

24. (New) The emulsifiable concentrate according to claim 21, wherein the mixture of emulsifiers comprises:

at least 50g/l (relative to the emulsifiable concentrate), optionally from 55g/l to 65 g/l, of an alkaline metal or alkaline metal salts of dodecylbenzene sulfonic acid, and at least 50g/l (relative to the emulsifiable concentrate), optionally from 55g/l to 65g/l, of alkylaryl ethylene oxide/propylene oxide block copolymers.

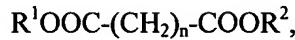
25. (New) The emulsifiable concentrate according to claim 15, wherein the mixture of emulsifiers comprises:

at least 50 g/l (relative to the emulsifiable concentrate), optionally from 54 g/l to 72 g/l, of an alkaline metal or alkaline metal salts of dodecylbenzene sulfonic acid, and at least 40 g/l (relative to the emulsifiable concentrate), optionally from 48 g/l to 66 g/l, for example 54 g/l, of ethoxylated and/or propoxylated di- or tri-styrylphenols.

26. (New) The emulsifiable concentrate according to claim 15, wherein the active ingredient is pendimethalin and it does not crystallize at 0°C, optionally at -5°C.

27. (New) A method for preparing an emulsion in water of an active ingredient being a dinitroaniline compound, optionally selected from the group consisting of pendimethalin, trifluralin and mixtures thereof, comprising the step of mixing 1 part by volume of an emulsifiable concentrate comprising an active ingredient being a dinitroaniline compound, an emulsifier or an emulsifier mixture, and a solvent, said

concentrate comprising an amount of a diester co-solvent having the following formula:



wherein:

R^1 and R^2 , identical or different, are C_1-C_{10} , optionally C_1-C_6 , linear or branched, alkyl, aryl, alkaryl or arylalkyl groups, and

n is an average number of from 2 to 4,

with at least 10 parts of water, and up to 500 parts by volume of water.

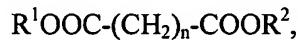
28. (New) An emulsion comprising:

an active ingredient selected being a dinitroaniline compound,

an emulsifier or a mixture of emulsifiers,

a solvent,

a diester co-solvent having the following formula:



wherein:

R^1 and R^2 , identical or different, are C_1-C_{10} , optionally C_1-C_6 , linear or branched, alkyl, aryl, alkaryl or arylalkyl groups, and

n is an average number of from 2 to 4, and

water.

29. (New) An emulsion according to claim 28, wherein the active ingredient is selected from the group consisting of pendimethalin, trifluralin and mixtures thereof.

30. (New) An emulsion according to claim 29, wherein:

the solvent is an aromatic hydrocarbon,

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the diester co-solvent is diisobutyl adipate or a mixture of diisobutyl adipate, diisobutyl glutarate, and diisobutyl succinate.